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*North America's Leader in Hazardous Material Information Management*  
*1905 Aston Avenue, Carlsbad, CA 92008*  
*Phone (800) 451-8346 Fax (760) 602-8888*

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## MSDS PRODUCT INFORMATION

Date: 10/07/2005  
To: MSDS Requester  
From: 3E Company  
Subject: The MSDS you have requested

☐ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☐ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☐ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

☒ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: Friendly Systems, Inc.  
Product Name: Magic Mop

MSDS--MAGIC-MOP  
MATERIAL SAFETY DATA SHEET MAGIC MOP

DATE OF ISSUE: 05/02/2000  
SUPERCEDES: 11/15/1996

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SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms:	Trade Name & Synonyms:
N/A	MAGIC MOP
Chemical Family:	Formula Mixture:
STARCH/POLYMER BLEND	X
Manufacturer's Name:	
FRIENDLY SYSTEMS, INC.	
Address:	
3878 OAK LAWN	
SUITE 100B-300	
DALLAS,	TX 75219
Prepared By:	C WILLIAMSON/CHEMIST
Product Code Number:	5801
Emergency Phone Number:	800-424-9300

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SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS:

Chemical Name (Ingredients):	2-PROPENOIC ACID, HOMOPOLYMER (GRAFTED SODIUM POLYACRYLATE)
Hazard:	IRRITANT
TLV:	3 MG/M3 \$1
PEL:	5 MG/M3 \$2
STEL:	NOT EST.
CAS#:	9003-04-7
Chemical Name (Ingredients):	POWDERED CORN STARCH
Hazard:	IRRITANT
TLV:	3 MG/M3 \$1
PEL:	5 MG/M3 \$2
STEL:	NOT EST.
CAS#:	9005-25-8
Chemical Name (Ingredients):	SYNTHETIC PRECIPITATED SILICA
Hazard:	IRRITANT
TLV:	3 MG/M3 \$1
PEL:	5 MG/M3 \$2

## MSDS--MAGIC-MOP

STEL: NOT EST.  
CAS#: 7631-86-9

Chemical Name (Ingredients): \$ PNOC  
Hazard:  
TLV:  
PEL:  
STEL:  
CAS#:

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SECTION III - PHYSICAL DATA

Boiling Point (f): N/A  
Specific Gravity (H2O=1): >1  
Vapor Pressure (MM HG): N/A  
Color: WHITE  
Vapor Density (Air=1): N/A  
Odor: MINT  
PH @ 100%: N/A  
Clarity: OPAQUE  
Volatile by Volume: 2  
Evaporation Rate (BU A/C=1): <0.001  
H2O Solubility: ABSORBENT  
Viscosity: POWDER

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SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point: >200 F / SETAFLASH  
Flammable Limits: N/A LEL: N/A UEL: N/A

## Extinguishing Media:

Foam: X Alcohol Foam: CO2: X  
Dry Chemical: X Water Spray: X Other:

## Special Fire Fighting Procedures:

FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS  
AND FULL PROTECTIVE GEAR.

## Unusual Fire and Explosion Hazards:

PRODUCT MAY FORM AN EXPLOSIVE MIXTURE WHEN FINELY DIVIDED AND  
SUSPENDED IN AIR.

Aerosol Level (NFPA 30B): N/A  
NFPA 704 Hazard Rating:

MSDS--MAGIC-MOP  
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)  
Health: 1      Flammability: 1      Instability: 0      Special:

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SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:  
3 MG/M3 AS PNOC      1.

Effects of Overexposure:

-Acute (Short Term Exposure)

EYE CONTACT: MAY CAUSE IRRITATION SEEN AS TEARING AND REDNESS. SKIN CONTACT: NOT A HAZARD. MAY CAUSE MILD DRYING OF SKIN. INHALATION: MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING, NASAL IRRITATION AND NOSEBLEEDS. EXCESSIVE CONTACT WITH POWDER MAY CAUSE DRYING OF THE MUCOUS MEMBRANES, EYES AND THROAT DUE TO THE ABSORPTION OF MOISTURE AND OILS. INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA IF EXTREMELY LARGE AMOUNTS ARE INGESTED.

-Chronic (Long Term Exposure)

TARGET ORGANS: NONE KNOWN. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY CONDITIONS SUCH AS ASTHMA AND EMPHYSEMA. TARGET ORGANS: NONE KNOWN.

Primary Routes of Entry:    Inhalation: X    Ingestion:      Absorption:

Emergency and First Aid Procedures:

-Inhalation:

IF DUST IS INHALED, REMOVE FROM THE AREA TO FRESH AIR. HAVE THE PERSON BLOW THEIR NOSE TO REMOVE THE SUBSTANCE FROM THE NASAL PASSAGES AND KEEP FROM INHALING FURTHER. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

-Eye Contact:

RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Skin Contact:

NOT NORMALLY A HAZARD. WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Ingestion:

NOT NORMALLY A HAZARD. IF LARGE AMOUNTS ARE INGESTED, GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

## MSDS--MAGIC-MOP

-Notes to Physician:

THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY.

## SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC: No

NTP: No

OSHA: No

ACGIH: No

OTHER: No

POWDERED CORN STARCH

SKN-HMN SDT: 300 UG/3D-I MILD 4.

3.

SILICON DIOXIDE, AMORPHOUS

EYE-RBT SDT: 25 MG/24H MILD

ORL-RAT LDLO: 5 GM/KG

3.

STARCH GRAFTED SODIUM POLYACRYLATE

IHL-RAT LCLO: 2190 MG/M3/4H

3.

ORL-RAT LD50: >5000 MG/KG 4.

SKN-RBT LD50: &gt;2000 MG/KG 4.

SIX WEEK HUMAN REPEAT INSULT PATCH TEST: PRODUCT APPLIED IN BOTH SUSPENSION

AND DRY GRANULES TO THE SKIN OF 200 VOLUNTEER SUBJECTS AT A DOSAGE OF 0.2

GRAMS. THERE WAS NO EVIDENCE OF SENSITIZATION.

4.

GUINEA PIG REPEAT INSULT PATCH TEST: PRODUCT WAS APPLIED VIA CLOSED PATCH

TO THE SKIN OF 10 GUINEA PIGS AT A DOSAGE OF 0.3 GRAMS OF A 0.5% CONCENTRATION-

TION OF THE MATERIAL. THERE WAS NO EVIDENCE OF SENSITIZATION.

4.

LABORATORY RATS WERE EXPOSED OVER THEIR LIFETIMES TO A HIGHLY RESPIRABLE

DUST OF SODIUM POLYACRYLATE AT THE FOLLOWING CONCENTRATIONS: 0.8, 0.2  
AND

0.05 MG/M3. AT THE HIGHER LEVEL, LOCAL INFLAMMATION OF THE LUNG TISSUE WAS

NOTED LEADING TO TUMORS IN SOME ANIMALS. AT 0.2 MG/M3, SOME INFLAMMATI  
ON

WAS NOTED BUT NO TUMORIGENIC RESPONSE. AT 0.05 MG/M3, NO INFLAMMATION OR

ANY OTHER LUNG INJURY WAS NOTED. THE RELEVANCE OF THIS DATA AND ITS EFFECTS

ON HUMANS IS UNKNOWN.

4.

2-PROPENOIC ACID HOMOPOLYMER

ORL-RAT LD50: >40 G/KG

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3.

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SECTION VII - REACTIVITY DATA

Stability:                      Stable: X                      Unstable:

Conditions to Avoid: TEMPERATURES ABOVE 1472F/800C.

Incompatibility (Materials to Avoid):

OXIDIZING AGENTS, BASES SUCH AS SODIUM AND POTASSIUM HYDROXIDE  
S, AND HYDROFLUORIC ACID.

Hazardous Decomposition Products:

OXIDES OF CARBON AND NITROGEN.

Hazardous Polymerization:

May Occur:                      Will Not Occur: X

Conditions to Avoid: NONE KNOWN.

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SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:

TRANSFER SOLID INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. AVOID USING WATER AS IT CAUSES THE AREA TO BECOME EXTREMELY SLIPPERY. AVOID CREATING DUSTY CONDITIONS. WEAR APPROPRIATE PROTECTIVE CLOTHING.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

Neutralizing Agent:

N/A

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SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE DUSTY CONDITIONS.

Respiratory Protection:

A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL OR WHERE DUSTING EXISTS.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES IF REPEATED OR PROLONGED SKIN CONTACT

MSDS--MAGIC-MOP

T IS LIKELY.

Eye Protection:

SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

Other Protection:

WEAR GENERAL DUTY WORK CLOTHING AND SHOES.

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SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature:      Indoors: X                      Outdoors:  
Heated:                      Refrigerated:

Minimum Temperature: N/A                      Maximum Temperature: 120 F

Precautions to be taken in Handling and Storing:

ALWAYS STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE IN A COOL, DRY AREA.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

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SECTION XI - REGULATORY INFORMATION

Chemical Name	CAS Number	Upper % Limit
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Those Ingredients listed above are subject to the reporting requirements of 313 of Title III and of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

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SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1999.
2. OSHA PEL.
3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2000.
4. VENDOR'S MSDS.

ALL COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.

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IRR:IRRITANT, FLAM/FLAMM:FLAMMABLE, COMB:COMBUSTIBLE, CORR:CORROSIVE

MSDS--MAGIC-MOP

CARC:CARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED,  
COC:CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN CLOSED CUP, TCC:TAGLIABUE  
CLOSEDCUP, LEL:LOWER EXPLOSION LIMIT, UEL:UPPER EXPLOSION LIMIT,  
NFPA:NATIONAL FIRE PROTECTION ASSOCIATION, IARC:INTERNATIONAL AGENCY F  
OR  
THE RESEARCH ON CANCER, NTP:NATIONAL TOXICOLOGY PROGRAM, OSHA:OCCUPATI  
ONAL  
SAFETY & HEALTH ADMINISTRATION, ACGIH:AMERICAN CONFERENCE OF GOVERNMEN  
TAL  
INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPO  
SURE  
LIMIT, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEV  
ERE,  
MUT:MUTAGENIC, ASPHYX:ASPHYXIAN, PNOC: PARTICULATES NOT OTHERWISE CLA  
SSI-  
FIED, SDT:STANDARD DRAIZE TEST, ORL: ORAL, HMN: HUMAN, IHL: INHALATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE  
IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRES  
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he product.